

# TRANSMITTAL FORM

(To be used for all correspondence  
after initial filing)

Application Number	10/714,564
Filing Date	November 14, 2003
First Named Inventor	Orest W. Blaschuk
Art Unit	3629
Examiner Name	
Attorney Docket No.	100086.418

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Request for Corrected Filing Receipt	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Response	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to TC ( <i>Appeal Notice, Brief, Reply Brief</i> )
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address	<input checked="" type="checkbox"/> Return Receipt Postcard
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Declaration	<input type="checkbox"/> Other Enclosure(s) ( <i>please identify below</i> ):
<input checked="" type="checkbox"/> Information Disclosure Statement; Form PTO-1449	<input type="checkbox"/> Statement under 37 CFR 3.73(b)	_____
<input checked="" type="checkbox"/> 166 Cited References	<input type="checkbox"/> Terminal Disclaimer	_____
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Request for Refund	_____
<input type="checkbox"/> Response to Missing Parts under 37 C.F.R. 1.52 or 1.53	<input type="checkbox"/> CD, Number of CD(s) _____	_____
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	<input type="checkbox"/> Landscape Table on CD	_____

Remarks

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Seed Intellectual Property Law Group PLLC	Customer Number	00500
Signature			
Printed Name	Jeffrey E. Hundley, Ph.D., Patent Agent		
Date	April 19, 2005	Reg. No.	42,676

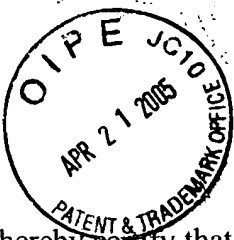
## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature		
Typed or printed name	Lawrence Teague	Date: April 19, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT

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April 19, 2005  
Date

Lawrence Teague  
Lawrence Teague

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Orest W. Blaschuk et al.  
Application No. : 10/714,564  
Filed : November 14, 2003  
For : COMPOUNDS AND METHODS FOR MODULATING  
FUNCTIONS OF NONCLASSICAL CADHERINS

Art Unit : 3629  
Docket No. : 100086.418  
Date : April 19, 2005

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 CFR 1.56 and 1.97 through 1.98, applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached Form PTO-1449. Copies of the cited U.S. patents and published patent applications are not required and accordingly have not been provided. Copies of all other cited references are enclosed. As to any reference cited, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 CFR 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they

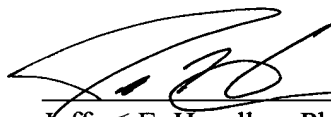
are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC



Jeffrey E. Hundley, Ph.D., Patent Agent  
Registration No. 42,676

JEH:ljt

Enclosures:

Postcard  
Transmittal Form  
Form PTO-1449 (18 Sheets)  
Cited References (166)

701 Fifth Avenue, Suite 6300  
Seattle, Washington 98104-7092  
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FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

100086.418

APPLICATION NO.

10/714,564

## INFORMATION DISCLOSURE STATEMENT

(Include several sheets if necessary)

APPLICANTS

Orest W. Blaschuk et al.

FILING DATE

November 14, 2003

GROUP ART UNIT

3629

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,585,351	12/17/96	Ranscht	514	12	
	AB	5,597,725	1/28/97	Suzuki	435	328	
	AC	5,610,281	3/11/97	Brenner et al.	530	388.85	
	AD	5,639,634	6/17/97	Suzuki	435	69.1	
	AE	5,643,781	7/1/97	Suzuki	435	325	
	AF	5,646,250	7/8/97	Suzuki	530	350	
	AG	5,663,300	9/2/97	Suzuki	530	350	
	AH	5,708,143	1/13/98	Suzuki	530	350	
	AI	5,811,514	9/22/98	Bard et al.	530	324	
	AJ	5,869,683	02/09/99	Takeshita et al.	536	23.5	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK	EP 1074618	02/07/01	EPO		
	AL	GB 2 282 379 A	04/05/95	United Kingdom		
	AM	WO 91/04745	04/18/91	WIPO		
	AN	WO 94/11401	05/26/94	WIPO		
	AO	WO 96/27387	09/12/96	WIPO		

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	Albelda et al., "Adhesion molecules and inflammatory injury," <i>The FASEB Journal</i> 8(8):504-512, 1994.
	AQ	Alexander, J.S. et al., "An N-cadherin-like protein contributes to solute barrier maintenance in cultured endothelium," <i>J. Cell Physiol.</i> 156(3): 610-618, September 1993.
	AR	Bangma et al., "The Value of Screening Tests in the Detection of Prostate Cancer. Part I: Results of a Retrospective Evaluation of 1726 Men," <i>Urology</i> 46(6): 773-778, 1995.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	5,895,748	04/20/99	Johnson et al.	435	7.23	
	BB	5,916,771	6/29/99	Hori et al.	435	69.6	
	BC	5,997,866	12/07/99	Johnson et al.	424	138.1	
	BD	6,031,072	02/29/00	Blaschuk et al.	530	317	
	BE	6,060,595	05/09/00	Scaglioni et al.	536	23.72	
	BF	6,083,713	07/04/00	Manly et al.	435	69.1	
	BG	6,110,747	08/29/00	Blaschuk et al.	436	512	
	BH	6,169,071	01/02/01	Blaschuk et al.	514	4	
	BI	6,203,788	03/20/01	Blaschuk et al.	424	93.7	
	BJ	6,207,639	03/27/01	Blaschuk et al.	514	11	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	BK	WO 97/10258	03/20/97	WIPO		X
	BL	WO 97/38011	10/16/97	WIPO		
	BM	WO 98/02452	01/22/98	WIPO		
	BN	WO 98/25946	06/18/98	WIPO		
	BO	WO 00/02917	01/20/00	WIPO		

**OTHER ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

	BP	Berndorff et al., "Liver-Intestine Cadherin: Molecular Cloning and Characterization of a Novel Ca <sup>2+</sup> -dependent Cell Adhesion Molecule Expressed in Liver and Intestine," <i>The Journal of Cell Biology</i> 125(6): 1353-1369, 1994.
	BQ	Blaschuk and Farookhi, "Estradiol Stimulates Cadherin Expression in Rat Granulosa Cells," <i>Developmental Biology</i> 136: 564-567, 1989.
	BR	Blaschuk et al., "E-cadherin, estrogens and cancer: is there a connection?," <i>The Canadian Journal of Oncology</i> 4(4): 291-301, November 1994.

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**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA	6,248,864	06/19/01	Blaschuk et al.	530	317	
	CB	6,277,824	08/21/01	Doherty et al.	514	13	
	CC	6,303,576	10/16/01	Blaschuk et al.	514	14	
	CD	6,310,177	10/30/01	Blaschuk et al.	530	317	
	CE	6,326,352	12/04/01	Blaschuk et al.	514	9	
	CF	6,333,307	12/25/01	Blaschuk et al.	514	9	
	CG	6,346,512	02/12/02	Blaschuk et al.	514	11	
	CH	6,358,920	03/19/02	Blaschuk et al.	514	9	
	CI	6,391,855	05/21/02	Blaschuk et al.	514	17	
	CJ	6,417,325	07/09/02	Blaschuk et al.	530	317	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	CK	WO 01/72956	10/04/01	WIPO		
	CL	WO 01/75109	10/11/01	WIPO		
	CM					

**OTHER ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

	CN	Blaschuk, O.W. et al., "Identification of a conserved region common to cadherins and influenza strain A hemagglutinins," <i>J. Mol. Biol.</i> 211(4): 679-682, February 1990.
	CO	Breier et al., "Molecular Cloning and Expression of Murine Vascular Endothelial-Cadherin in Early Stage Development of Cardiovascular System," <i>Blood</i> 87(2): 630-641, January 15, 1996.
	CP	Bussemakers et al., "The role of OB-cadherin in human prostate cancer," <i>Proceedings of the American Association for Cancer Research Vol. 39</i> , No. 3405, New Orleans, LA, March 28-April 1, 1998.
	CQ	Cardarelli, P.M. et al., "The Collagen Receptor $\alpha 2\beta 1$ , from MG-63 and HT1080 Cells, Interacts with a Cyclic RGD Peptide," <i>The Journal of Biological Chemistry</i> 267(32): 23159-23164, November 15, 1992.

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	DA	6,433,149	08/13/02	Blaschuk et al.	530	412	
	DB	6,465,427	10/15/02	Blaschuk et al.	514	9	
	DC	6,472,367	10/29/02	Blaschuk et al.	514	9	
	DD	6,472,368	10/29/02	Doherty et al.	514	9	
	DE	6,562,786	05/13/03	Blaschuk et al.	514	11	
	DF						

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	DG					

**OTHER ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

	DH	Carmeliet, P. et al., "Angiogenesis in cancer and other diseases," <i>Nature</i> 407: 249-257, September 14, 2000.
	DI	Carmeliet, P. et al., "Targeted deficiency of cytosolic truncation of the VE-cadherin gene in mice impairs VEGF-mediated endothelial survival and angiogenesis," <i>Cell</i> 98(2): 147-157, July 1999.
	DJ	Caveda, L. et al., "Inhibition of Cultured Cell Growth by Vascular Endothelial Cadherin (Cadherin-5/VE-Cadherin)," <i>Journal of Clinical Investigation</i> 98(4): 886-893, August 1996.
	DK	Doherty and Walsh, "CAM-FGF Receptor Interactions: A Model for Axonal Growth," <i>Molecular and Cellular Neuroscience</i> 8: 99-111, 1996.
	DL	Doherty and Walsh, "Signal transduction events underlying neurite outgrowth stimulated by cell adhesion molecules," <i>Current Opinion in Neurobiology</i> 4: 49-55, 1994.
	DM	Dvorak, H.F., "Vascular Permeability Factor/Vascular Endothelial Growth Factor: A Critical Cytokine in Tumor Angiogenesis and a Potential Target for Diagnosis and Therapy," <i>Journal of Clinical Oncology</i> 20(21): 4368-4380, November 1, 2002.
	DN	Edgington, "How Sweet It Is: Selectin-Mediating Drugs," <i>Bio/Technology</i> 10(4): 383-389, April 1992.

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<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)				APPLICANTS <b>Orest W. Blaschuk et al.</b>			
				FILING DATE <b>November 14, 2003</b>		GROUP ART UNIT <b>3629</b>	
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION YES NO	
	EB						
<b>OTHER ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	EC	Erez, N. et al., "Induction of apoptosis in cultured endothelial cells by a cadherin antagonist peptide: Involvement of fibroblast growth factor receptor-mediated signaling," <i>Experimental Cell Research</i> 294(2): 366-378, April 2004.					
	ED	Feltes, C.M. et al., "An Alternatively Spliced Cadherin-11 Enhances Human Breast Cancer Cell Invasion," <i>Cancer Research</i> 62: 6688-6697, November 15, 2002.					
	EE	Fredette and Ranscht, "T-Cadherin Expression Delineates Specific Regions of the Developing Motor Axon-Hindlimb Projection Pathway," <i>The Journal of Neuroscience</i> 14(12): 7331-7346, December 1994.					
	EF	Garrod, D.R. et al., "Desmosomal cadherins," <i>Current Opinion in Cell Biology</i> 14: 537-545, 2002.					
	EG	Genbank Database, Accession No. AB008178, February 13, 1999.					
	EH	Genbank Database, Accession No. AB008180, February 13, 1999.					
	EI	Genbank Database, Accession No. AB008181, February 13, 1999.					
	EJ	Genbank Database, Accession No. AB008182, February 13, 1999.					
	EK	Genbank Database, Accession No. AB008183, February 13, 1999.					
	EL	Genbank Database, Accession No. AB035302, August 8, 2000.					
EXAMINER				DATE CONSIDERED			
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**U.S. PATENT DOCUMENTS**

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	FA						

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	FB					

**OTHER ART** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	FC		Genbank Database, Accession No. AF029343, November 10, 1997.			
	FD		Genbank Database, Accession No. AF039747, July 17, 1999.			
	FE		Genbank Database, Accession No. AF217289, October 17, 2000.			
	FF		Genbank Database, Accession No. AJ007607, January 16, 2001.			
	FG		Genbank Database, Accession No. AY192158, June 7, 2003.			
	FH		Genbank Database, Accession No. AY192159, June 7, 2003.			
	FI		Genbank Database, Accession No. AY227349, June 5, 2003.			
	FJ		Genbank Database, Accession No. AY227350, June 5, 2003.			
	FK		Genbank Database, Accession No. D17427, February 1, 2000.			
	FL		Genbank Database, Accession No. D31784, July 7, 1997.			

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<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)				APPLICANTS Orest W. Blaschuk et al.			
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	GA						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION YES NO	
	GB						
<b>OTHER ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	GC	Genbank Database, Accession No. D42150, February 9, 1999.					
	GD	Genbank Database, Accession No. D83348, February 6, 1999.					
	GE	Genbank Database, Accession No. D83542, October 28, 2000.					
	GF	Genbank Database, Accession No. D86916, February 7, 1999.					
	GG	Genbank Database, Accession No. D86917, February 7, 1999.					
	GH	Genbank Database, Accession No. D88349, February 7, 1999.					
	GI	Genbank Database, Accession No. L11373, September 14, 1995.					
	GJ	Genbank Database, Accession No. L34056, June 29, 1994.					
	GK	Genbank Database, Accession No. L34057, June 29, 1994.					
	GL	Genbank Database, Accession No. L34058, June 29, 1994.					
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	HA						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION	
						YES	NO
	HB						
<b>OTHER ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	HC	Genbank Database, Accession No. L34060, June 29, 1994.					
	HD	Genbank Database, Accession No. P55287, October 1, 1996.					
	HE	Genbank Database, Accession No. Q02413, October 1, 1993.					
	HF	Genbank Database, Accession No. S64273, July 19, 1993.					
	HG	Genbank Database, Accession No. U59325, June 27, 1996.					
	HH	Genbank Database, Accession No. X56654, August 3, 1993.					
	HI	Genbank Database, Accession No. X56807, April 18, 2002.					
	HJ	Genbank Database, Accession No. X59796, January 24, 1995.					
	HK	Genbank Database, Accession No. X72925, February 24, 1999.					
	HL	Genbank Database, Accession No. X83228, June 1, 1995.					
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IA						

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				YES	NO
IB					

### OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

IC	Genbank Database, Accession No. X83929, December 14, 1995.
ID	Genbank Database, Accession No. Z26317, May 15, 2001.
IE	Genbank Database, Accession No. Z34522, June 22, 1994.
IF	Getsios et al., "Regulated Expression of Cadherin-6 and Cadherin-11 in the Glandular Epithelial and Stromal Cells of the Human Endometrium," <i>Developmental Dynamics</i> 211: 238-247, 1998.
IG	Griffiths et al., "Cell adhesion molecules in bladder cancer: soluble serum E-cadherin correlates with predictors of recurrence," <i>Br. J. Cancer</i> 74: 579-584, 1996.
IH	Grillner and Matsushima, "The Neural Network Underlying Locomotion in Lamprey - Synaptic and Cellular Mechanisms," <i>Neuron</i> 7: 1-15, July 1991.
II	Hall et al., "Review: A Role for the FGF Receptor in the Axonal Growth Response Stimulated by Cell Adhesion Molecules?," <i>Cell Adhesion and Communication</i> 3: 441-450, 1996.
IJ	Hanahan, D., "Signaling Vascular Morphogenesis and Maintenance," <i>Science</i> 277: 48-50, July 4, 1997.
IK	Hazan, R.B. et al., "N-Cadherin Promotes Adhesion Between Invasive Breast Cancer Cells and the Stroma," <i>Cell Adhesion and Communication</i> 4(6): 399-411, 1997.
IL	Huber, P. et al., "Genomic Structure and Chromosomal Mapping of the Mouse VE-Cadherin Gene ( <i>Cdh5</i> )," <i>Genomics</i> 32: 21-28, 1996.

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FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 100086.418	APPLICATION NO. 10/714,564
<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)		APPLICANTS Orest W. Blaschuk et al.	
		FILING DATE November 14, 2003	GROUP ART UNIT 3629

### U.S. PATENT DOCUMENTS

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JA						

### FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
JB					

### OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

JC	Inoue et al., "Cadherin-6 in the Developing Mouse Brain: Expression Along Restricted Connection Systems and Synaptic Localization Suggest a Potential Role in Neuronal Circuitry," <i>Developmental Dynamics</i> 211: 338-351, April 1998.
JD	Iruela-Arispe et al., "Expression of SPARC during Development of the Chicken Chorioallantoic Membrane: Evidence for Regulated Proteolysis In Vivo," <i>Molecular Biology of the Cell</i> 6: 327-343, March 1995.
JE	Kahan, B.D., "Immunosuppressive Therapy," <i>Current Opinion in Immunology</i> 4(5): 553-560, October 1992.
JF	Kashima, T. et al., "Anomalous Cadherin Expression in Osteosarcoma. Possible Relationships to Metastasis and Morphogenesis," <i>American Journal of Pathology</i> 155(5): 1549-1555, November 1999.
JG	Katayama et al., "Soluble E-cadherin fragments increased in circulation of cancer patients," <i>Br. J. Cancer</i> 69: 580-585, 1994.
JH	Kawaguchi, J. et al., "Targeted disruption of cadherin-11 leads to a reduction in bone density in calvaria and long bone metaphyses," <i>J. Bone Mineral Research</i> 16(7): 1265-1271, July 2001.
JI	Kawamura et al., "cDNA Cloning and Expression of a Novel Human Desmocollin," <i>The Journal Of Biological Chemistry</i> 269(42): 26295-26302, October 21, 1994.
JJ	Kido et al., "Molecular Properties and Chromosomal Location of Cadherin-8," <i>Genomics</i> 48: 186-194, 1998.
JK	Kimura, Y. et al., "Cadherin-11 Expressed in Association with Mesenchymal Morphogenesis in the Head, Somite, and Limb Bud of Early Mouse Embryos," <i>Developmental Biology</i> 169: 347-358, 1995.
JL	King et al., "Cloning of the cDNA (DSC1) Coding for Human Type 1 Desmocollin and Its Assignment to Chromosome 18," <i>Genomics</i> 18: 185-194, 1993.

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ATTY. DOCKET NO.

100086.418

APPLICATION NO.

10/714,564

**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

APPLICANTS

Orest W. Blaschuk et al.

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KA						

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
KB					

**OTHER ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

KC	King et al., "The Desmocollins of Human Foreskin Epidermis: Identification and Chromosomal Assignment of a Third Gene and Expression Patterns of the Three Isoforms," <i>J Invest Dermatol</i> 105: 314-321, 1995.
KD	Klopfenstein et al., "Increased N-cadherin mediated adhesion does not reduce invasion of Rous sarcoma virus-transformed astrocyte-like WC5 cells," <i>Proceedings of the American Association for Cancer Research</i> 34: 33, #195, March 1993.
KE	Knudsen et al., "Interaction of alpha-actinin with the cadherin/catenin cell-cell adhesion complex via alpha-catenin," <i>J. Cell Biol.</i> 130(1):67-77, July 1995.
KF	Koch et al., "Complete amino acid sequence of the epidermal desmoglein precursor polypeptide and identification of a second type of desmoglein gene," <i>European Journal of Cell Biology</i> 55: 200-208, 1991.
KG	Kogan et al., "A Single Amino Acid Residue Can Determine the Ligand Specificity of E-selectin," <i>The Journal of Biological Chemistry</i> 270(23):14047-14055, June 9, 1995.
KH	Kohmura et al., "Diversity Revealed by a Novel Family of Cadherins Expressed in Neurons at a Synaptic Complex," <i>Neuron</i> 20: 1137-1151, June 1998.
KI	Kools, P. et al., "Characterization of three novel human cadherin genes (CDH7, CHD19, CDH20) clustered on chromosome 18q22-q23 and with high homology to chicken cadherin-7," <i>Genomics</i> 68(3): 283-295, September 15, 2000.
KJ	Kools, P. et al., "The human cadherin-10 gene: complete coding sequence, predominant expression in the brain, and mapping on chromosome 5p13-14," <i>FEBS Letters</i> 452: 328-334, 1999.
KK	Kools, P.F.J. et al., "Expression in mesenchymal tumors of alternative cadherin-11 transcripts encoding truncated adhesion molecules: a mechanism for acquiring invasive properties?" <i>Clinical &amp; Experimental Metastasis</i> 14(Suppl.1): 52-53, September 1996.
KL	Kreft et al., "LI-Cadherin-mediated Cell-Cell Adhesion Does Not Require Cytoplasmic Interactions," <i>The Journal of Cell Biology</i> 136(5): 1109-1121, March 10, 1997.

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LA						

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				YES	NO
LB					

### OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

LC	Lampugnani, M.G. et al., "The Molecular Organization of Endothelial Cell to Cell Junctions: Differential Association of Plakoglobin, $\beta$ -catenin, and $\alpha$ -catenin with Vascular Endothelial Cadherin (VE-cadherin)," <i>The Journal of Cell Biology</i> 129(1): 203-217, April 1995.
LD	Lindahl et al., "Pericyte Loss and Microaneurysm Formation in PDGF-B-Deficient Mice," <i>Science</i> 277: 242-245, July 11, 1997.
LE	Loric et al., "Enhanced Detection of Hematogenous Circulating Prostatic Cells in Patients with Prostate Adenocarcinoma by Using Nested Reverse Transcription Polymerase Chain Reaction Assay Based on Prostate-Specific Membrane Antigen," <i>Clin. Chem.</i> 41(12): 1698-1704, 1995.
LF	Lutz et al., "Antibody Recognition of Peptide Sequences from the Cell-Cell Adhesion Proteins: N- and E-cadherins," <i>Peptide Research</i> 9(5): 233-239, 1996.
LG	Makrigiannakis, A. et al., "N-Cadherin-Mediated Human Granulosa Cell Adhesion Prevents Apoptosis. A Role in Follicular Atresia and Luteolysis?" <i>American Journal of Pathology</i> 154(5): 1391-1406, May 1999.
LH	Manabe, T. et al., "Loss of cadherin-11 adhesion receptor enhances plastic changes in hippocampal synapses and modifies behavioral responses," <i>Mol. Cell Neurosci</i> 15(6): 534-546, June 2000.
LI	Marcozzi et al., "Coexpression of both types of desmosomal cadherin and plakoglobin confers strong intercellular adhesion," <i>Journal of Cell Science</i> 111: 495-509, 1998.
LJ	Martin-Padura, I. et al., "Junctional Adhesion Molecule, a Novel Member of the Immunoglobulin Superfamily That Distributes at Intercellular Junctions and Modulates Monocyte Transmigration," <i>The Journal of Cell Biology</i> 142(1): 117-127, July 13, 1998.
LK	Matsuoka et al., "Recognition of Ovarian Cancer Antigen CA125 by Murine Monoclonal Antibody Produced by Immunization of Lung Cancer Cells," <i>Cancer Res.</i> 47: 6335-6340, December 1, 1987.
LL	Matsuyoshi and Imamura, "Multiple Cadherins Are Expressed in Human Fibroblasts," <i>Biochemical and Biophysical Research Communications</i> 235: 355-358, 1997.

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	MA						

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					YES	NO
	MB					

### OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	MC	Mbalaviele et al., "Cadherin-6 Mediates the Heterotypic Interactions between the Hemopoietic Osteoclast Cell Lineage and Stromal Cells in a Murine Model of Osteoclast Differentiation," <i>The Journal of Cell Biology</i> 141(6): 1467-1476, June 15, 1998.
	MD	Mulders et al., "Prostate-specific antigen (PSA). A tissue-specific and sensitive tumor marker," <i>Eur. J. Surg. Oncol.</i> 16: 37-41, 1990.
	ME	Mundy, G.R., "Metastasis to bone: causes, consequences and therapeutic opportunities," <i>Nature Reviews. Cancer</i> 2(8): 584-593, August 2002.
	MF	Munro and Blaschuk, "A Comprehensive Survey of the Cadherins Expressed in the Testes of Fetal, Immature, and Adult Mice Utilizing the Polymerase Chain Reaction," <i>Biology Of Reproduction</i> 55: 822-827, 1996.
	MG	Munro and Blaschuk, "The Structure, Function and Regulation of Cadherins," in <i>Cell Adhesion and Invasion in Cancer Metastasis</i> , P. Brodt (ed.), RG Landes Co., Austin, Texas, 1996, Chapter 3, pp. 17-34.
	MH	Munro et al., "Characterization of Cadherins Expressed by Murine Thymocytes," <i>Cellular Immunology</i> 169: 309-312, 1996.
	MI	Munro, S.B. et al., "E-Cadherin and OB-Cadherin mRNA in Normal Human Colon and Colon Carcinoma," <i>Experimental and Molecular Pathology</i> 62(2): 118-122, April 1995.
	MJ	Nagafuchi et al., "Transformation of cell adhesion properties by exogenously introduced E-cadherin cDNA," <i>Nature</i> 329: 341-343, September 1987.
	MK	Nagashima et al., "Invasion properties in malignant gliomas - Expression of N-cadherin mRNA in gliomas," <i>Proceedings of the American Association for Cancer Proceedings</i> 37:68, #473, March 1996.
	ML	Nakagawa and Takeichi, "Neural crest cell-cell adhesion controlled by sequential and subpopulation-specific expression of novel cadherins," <i>Development</i> 121: 1321-1332, 1995.

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				YES	NO
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NC	Navarro et al., "Differential Localization of VE- and N-Cadherins in Human Endothelial Cells: VE-Cadherin Competes with N-Cadherin for Junctional Localization," <i>The Journal of Cell Biology</i> 140(6): 1475-1484, March 23, 1998.
ND	Ngo et al., "Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox," <i>The Protein Folding Problem and Tertiary Structure Prediction</i> , K. Merz, Jr. and S. Le Grand (eds.), Birkhäuser, Boston, pp. 491-495, 1994.
NE	Nieman, M.T. et al., "N-Cadherin Promotes Motility in Human Breast Cancer Cells Regardless of their E-Cadherin Expression," <i>The Journal of Cell Biology</i> 147(3): 631-643, November 1, 1999.
NF	Nollet, F. et al., "Phylogenetic analysis of the cadherin superfamily allows identification of six major subfamilies besides several solitary members," <i>Journal of Molecular Biology</i> 299(3): 551-572, June 9, 2000.
NG	Okazaki et al., "Molecular Cloning and Characterization of OB-cadherin, a New Member of Cadherin Family Expressed in Osteoblasts," <i>The Journal of Biological Chemistry</i> 269(16): 12092-12098, April 22, 1994.
NH	Orlandini and Oliverio, "In Fibroblast <i>Vegf-D</i> Expression Is Induced by Cell-Cell Contact Mediated by Cadherin-11," <i>The Journal of Biological Chemistry</i> 276(9): 6576-6581, March 2, 2001.
NI	Parker et al., "Desmosomal Glycoproteins II and III. Cadherin-Like Junctional Molecules Generated By Alternative Splicing," <i>The Journal of Biological Chemistry</i> 266(16): 10438-10445, June 1991.
NJ	Pertz, O. et al., "A new crystal structure, $Ca^{2+}$ dependence and mutational analysis reveal molecular details of E-cadherin homoassociation," <i>The EMBO Journal</i> 18(7): 1738-1747, 1999.
NK	Pishvaian, M.J. et al., "Cadherin-11 Is Expressed in Invasive Breast Cancer Cell Lines," <i>Cancer Research</i> 59: 947-952, February 15, 1999.
NL	Pouliot et al., "Developmental Regulation of A Cadherin during the Differentiation of Skeletal Myoblasts," <i>Developmental Biology</i> 141: 292-298, 1990.

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	OA						

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					YES	NO
	OB					

### OTHER ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	OC	Ranscht and Bronner-Fraser, "T-cadherin expression alternates with migrating neural crest cells in the trunk of the avian embryo," <i>Development</i> 111: 15-22, January 1991.
	OD	Ranscht and Dours-Zimmermann, "T-Cadherin, a Novel Cadherin Cell Adhesion Molecule in the Nervous System Lacks the Conserved Cytoplasmic Region," <i>Neuron</i> 7: 391-402, September 1991.
	OE	Redies and Takeichi, "Cadherins in the Developing Central Nervous System: An Adhesive Code for Segmental and Functional Subdivisions," <i>Developmental Biology</i> 180: 413-423, 1996.
	OF	Rowlands, T.M. et al., "Cadherins: crucial regulators of structure and function in reproductive tissues," <i>Reviews of Reproduction</i> 5: 53-61, 2000.
	OG	Rozdzinski et al., "Antiinflammatory Effects in Experimental Meningitis of Prokaryotic Peptides that Mimic Selectins," <i>J. Infect. Dis.</i> 168:1422-1428, 1993.
	OH	Rustin et al., "Defining Response of Ovarian Carcinoma to Initial Chemotherapy According to Serum CA 125," <i>J. Clin. Oncol.</i> 14(5): 1545-1551, May 1996.
	OI	Sacristán et al., "T-Cadherin 2: Molecular Characterization, Function in Cell Adhesion, and Coexpression With T-Cadherin and N-Cadherin," <i>Journal of Neuroscience Research</i> 34: 664-680, 1993.
	OJ	Saffell et al., "Expression of a Dominant Negative FGF Receptor Inhibits Axonal Growth and FGF Receptor Phosphorylation Stimulated by CAMS," <i>Neuron</i> 18: 231-242, 1997.
	OK	Sano et al., "Protocadherins: a large family of cadherin-related molecules in central nervous system," <i>The EMBO Journal</i> 12(6): 2249-2256, 1993.
	OL	Schnädelbach, O. et al., "N-cadherin influences migration of oligodendrocytes on astrocytes monolayers," <i>Mol. Cell Neurosci.</i> 15(3): 288-302, March 2000.

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PA						

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				YES	NO
PB					

### OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PC	Schnädelbach, O. et al., "N-cadherin is involved in axon-oligodendrocyte contact and myelination," <i>Mol. Cell Neurosci.</i> 17(6): 1084-1093, June 2001.
PD	Shapiro, L. et al., "Structural basis of cell-cell adhesion by cadherins," <i>Nature</i> 374: 327-337, March 23, 1995.
PE	Shibata et al., "Identification of Human Cadherin-14, a Novel Neurally Specific Type II Cadherin, by Protein Interaction Cloning," <i>The Journal Of Biological Chemistry</i> 272(8): 5236-5240, February 21, 1997.
PF	Shibata et al., "Simultaneous expression of cadherin-11 in signet-ring cell carcinoma and stromal cells of diffuse-type gastric cancer," <i>Cancer Letters</i> 99: 147-153, 1996.
PG	Shimazui et al., "Complex Cadherin Expression in Renal Cell Carcinoma," <i>Cancer Research</i> 56: 3234-3237, July 15, 1996.
PH	Shimoyama et al., "Isolation and Sequence Analysis of Human Cadherin-6 Complementary DNA for the Full Coding Sequence and Its Expression in Human Carcinoma Cells," <i>Cancer Research</i> 55: 2206-2211, May 15, 1995.
PI	Shimoyama et al., "Molecular Cloning and Characterization of a Novel Human Classic Cadherin Homologous with Mouse Muscle Cadherin," <i>The Journal of Biological Chemistry</i> 273(16): 10011-10018, April 17, 1998.
PJ	Shimoyama, Y. et al., "Identification of three human type-II classic cadherins and frequent heterophilic interactions between different subclasses of type-II classic cadherins," <i>Biochemical Journal</i> 349: 159-167, 2000.
PK	Simonneau et al., "Cadherin 11 Expression Marks the Mesenchymal Phenotype: Towards New Functions for Cadherins?," <i>Cell Adhesion and Communication</i> 3: 115-130, 1995.
PL	Slootstra et al., "Structural Aspects of Antibody-Antigen Interaction Revealed Through Small Random Peptide Libraries," <i>Molecular Diversity I</i> : 87-96, 1995.

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	QA						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION YES NO	
	QB						
<b>OTHER ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	QC	Sugimoto et al., "Molecular Cloning and Characterization of a Newly Identified Member of the Cadherin Family, PB-cadherin," <i>The Journal Of Biological Chemistry</i> 271(19): 11548-11556, May 10, 1996.					
	QD	Suzuki et al., "Diversity of the cadherin family: evidence for eight new cadherins in nervous tissue," <i>Cell Regulation</i> 2: 261-270, April 1991.					
	QE	Taber's Cyclopedic Medical Dictionary, 17 <sup>th</sup> Ed., F.A. Davis Company, Philadelphia, 1993, pg. 1016.					
	QF	Tanihara et al., "Cloning of Five Human Cadherins Clarifies Characteristic Features of Cadherin Extracellular Domain and Provides Further Evidence for Two Structurally Different Types of Cadherin," <i>Cell Adhesion and Communication</i> 2: 15-26, 1994.					
	QG	The Merck Manual of Diagnosis and Therapy, 16 <sup>th</sup> ED., Berkow, R. et al. (eds.), Merck Research Laboratories, Rahway, NJ, 1992, pgs. 1264-1265.					
	QH	Tkachuk et al., "Identification of an atypical lipoprotein-binding protein from human aortic smooth muscle as T-cadherin," <i>FEBS Letters</i> 421: 208-212, 1998.					
	QI	Tselepis, C. et al., "Desmosomal adhesion inhibits invasive behavior," <i>Proc. Natl. Acad. Sci. USA</i> 95: 8064-8069, July 1998.					
	QJ	Tsutsui et al., "Expression of Cadherin-Catenin Complexes in Human Leukemia Cell Lines," <i>Journal of Biochemistry</i> 120(5): 1034-1039, November 1996.					
	QK	Vallin, J. et al., "Xenopus cadherin-11 is expressed in different populations of migrating neural crest cells," <i>Mechanisms of Development</i> 75(1-2): 171-174, July 1998.					
	QL	Van Den Brule et al., "Genes Involved in Tumor Invasion and Metastasis are Differentially Modulated by Estradiol and Progestin in Human Breast-Cancer Cells," <i>Int. J. Cancer</i> 52: 653-657, October 1992.					
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				YES	NO
RB					

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RC	Vestal and Ranscht, "Glycosyl Phosphatidylinositol-anchored T-Cadherin Mediates Calcium-dependent, Homophilic Cell Adhesion," <i>The Journal of Cell Biology</i> 119(2): 451-461, October 1992.
RD	Ward and Mulligan, "Blocking of Adhesion Molecules <i>In Vivo</i> as Anti-Inflammatory Therapy," <i>Therapeutic Immunology</i> 1: 165-171, 1994.
RE	Wheeler et al., "Desmosomal glycoprotein DGI, a component of intercellular desmosome junctions, is related to the cadherin family of cell adhesion molecules," <i>Proc. Natl. Acad. Sci. USA</i> 88: 4796-4800, June 1991.
RF	Wheelock, M.J. et al., "Soluble 80-kd Fragment of Cell-CAM 120/80 Disrupts Cell-Cell Adhesion," <i>Journal of Cellular Biochemistry</i> 34: 187-202, 1987.
RG	Wilby, M.J. et al., "N-Cadherin inhibits Schwann cell migration on astrocytes," <i>Mol. Cell Neurosci.</i> 14(1): 66-84, July 1999.
RH	Williams et al., "Activation of the FGF Receptor Underlies Neurite Outgrowth Stimulated by L1, N-CAM, and N-Cadherin," <i>Neuron</i> 13: 583-594, September 1994.
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RJ	
RK	
RL	

EXAMINER	DATE CONSIDERED
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\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).